

CLAIMS:

What is claimed is:

- 1 1. A method for managing network configuration data, the
2 network comprising a plurality of first type computers having a
3 limited function range excluding at least a self-boot process and
4 being bootable by a second type computer having a respective
5 extended function range, said method comprising:
6 sending location information about the first type computer
7 such that a respective second type computer may receive it.
- 8 2. The method according to claim 1 in which said location
9 information is included into boot messages usable between first
10 type and second type computers according to a predetermined
11 network communication protocol.
- 12 3. The method according claim 2 further comprising:
13 including current status information about the first type
14 computer into Infoboot messages having the same format as said
15 boot messages; and
16 periodically sending current status information in said boot
17 messages after a successful boot of the first type computer.
- 18 4. The method according to claim 2 further comprising providing
19 a flagging means in said boot message for distinguishing between
20 said boot message and said Infoboot message.
- 21 5. The method according to claim 1 wherein said location
22 information is included into boot messages according to the BootP
23 protocol.

1 6. A method for managing network configuration data, the
2 network comprising a plurality of first type computers having a
3 limited function range excluding at least a self-boot process and
4 being bootable by a second type computer having a respective
5 extended function range, said method comprising:

6 collecting first-type-computer-related location and /or
7 status information from a plurality of locations in the network
8 by evaluating messages sent out by the first type computers; and
9 storing said location and /or status information.

7. The method according to claim 6 wherein said second type
computer is a server, and further comprising using the location
information for determining the server's own network location.

8. The method according to claim 7 further comprising
collecting said information in a dedicated database.

9. The method according to claim 8 further comprising setting
up a network configuration description according to the stored
information.

10. The method according claim 9 further comprising, after a
second-type-computer-related operation disruption, evaluating
current status and /or location information associated with said
first type computers before other messages.

11. The method according to claim 6 further comprising
consistently operating second type server computers serving first
type embedded controller computers in an enterprise network.

12. The method according to claim 6 further comprising operating
second type server computers serving first type embedded
controller computers in a computer-controlled industry plant.

1 13. An apparatus method for managing network configuration data,
2 said apparatus comprising:

3 a plurality of first type computers having a limited
4 function range excluding at least a self-boot process;

5 a second type computer having a respective extended function
6 range, said first type computers being bootable by said second
7 type computer; and

8 a transmitter sending location information about the first
9 type computer such that a respective second type computer may
10 receive it.

11 14. The apparatus according to claim 13 in which said location
12 information is included into boot messages usable between first
13 type and second type computers according to a predetermined
14 network communication protocol.

15 15. The apparatus according claim 14 further comprising:

16 a facility including current status information about the
17 first type computer into Infoboot messages having the same format
18 as said boot messages; and

19 a facility periodically sending current status information
20 in said boot messages after a successful boot of the first type
21 computer.

22 16. The apparatus according to claim 14 further comprising a
23 flag in said boot message for distinguishing between said boot
24 message and said Infoboot message.

25 17. The apparatus according to claim 13 wherein said location
26 information is included into boot messages according to the BootP
27 protocol.

1 18. An apparatus for managing network configuration data, the
2 network comprising a plurality of first type computers having a
3 limited function range excluding at least a self-boot process and
4 being bootable by a second type computer having a respective
5 extended function range, said apparatus comprising:

6 An evaluator collecting first-type-computer-related location
7 and /or status information from a plurality of locations in the
8 network by evaluating messages sent out by the first type
9 computers; and

10 a memory storing said location and /or status information.

11 19. The apparatus according to claim 18 wherein said second type
12 computer is a server, and further comprising using the location
13 information for determining the server's own network location.

14 20. The apparatus according to claim 19 further comprising said
15 evaluator collecting said information in a dedicated database.

16 21. The apparatus according to claim 20 further comprising
17 setting up a network configuration description according to the
18 stored information.

1 22. The apparatus according claim 21 further comprising, after a
2 second-type-computer-related operation disruption, evaluating
3 current status and /or location information associated with said
4 first type computers before other messages.

1 23. The apparatus according to claim 18 further comprising
2 consistently operating second type server computers serving first
3 type embedded controller computers in an enterprise network.

1 24. The apparatus according to claim 18 further comprising
2 operating second type server computers serving first type

embedded controller computers in a computer-controlled industry plant.

25. A program product for managing network configuration data, the network comprising a plurality of first type computers having a limited function range excluding at least a self-boot process and being bootable by a second type computer having a respective extended function range, said program product comprising:

a computer readable medium having recorded thereon computer readable program code means for performing the method comprising:
sending location information about the first type computer such that a respective second type computer may receive it.

26. The program product according to claim 25 in which said location information is included into boot messages usable between first type and second type computers according to a predetermined network communication protocol.

27. The program product according claim 25 wherein said method further comprises:

including current status information about the first type computer into Infoboot messages having the same format as said boot messages; and
periodically sending current status information in said boot messages after a successful boot of the first type computer.

28. The program product according to claim 26 wherein said method further comprises providing a flagging means in said boot message for distinguishing between said boot message and said Infoboot message.

1 29. The program product according to claim 25 wherein said
2 location information is included into boot messages according to
3 the BootP protocol.

1 30. A program product for managing network configuration data,
2 the network comprising a plurality of first type computers having
3 a limited function range excluding at least a self-boot process
4 and being bootable by a second type computer having a respective
5 extended function range, said program product comprising:

6 a computer readable medium having recorded thereon computer
7 readable program code means for performing the method comprising:
8 collecting first-type-computer-related location and /or
9 status information from a plurality of locations in the network
10 by evaluating messages sent out by the first type computers; and
11 storing said location and /or status information.

1 31. The program product according to claim 30 wherein said
2 second type computer is a server, and said method further
3 comprises using the location information for determining the
4 server's own network location.

1 32. The program product according to claim 31 wherein said
2 method further comprises collecting said information in a
3 dedicated database.

1 33. The program product according to claim 32 wherein said
2 method further comprises setting up a network configuration
3 description according to the stored information.

1 34. The program product according claim 33 wherein said method
2 further comprises, after a second-type-computer-related operation
3 disruption, evaluating current status and /or location

4 information associated with said first type computers before
5 other messages.

1 35. The program product according to claim 25 wherein said
2 method further comprises consistently operating second type
3 server computers serving first type embedded controller computers
4 in an enterprise network.

1 36. The program product according to claim 25 wherein said
2 method further comprises operating second type server computers
3 serving first type embedded controller computers in a
4 computer-controlled industry plant.

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